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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
PCT 21071Y International application No.	International filing date (day/mo	onth/year)	Priority date (day/month/year)
		ı	05 April 2002 (05.04.2002)
PCT/US03/09800	01 April 2003 (01.04.2003)		
International Patent Classification (IPC) or national classification and IPC IPC(7): C07C 233/05; C07D 311/04, 215/02, 471/02, 277/62, 235/02, 401/04, 495/02; A61K 31/165, 31/34, 31/47 and US Cl.: 514/617, 469, 311, 300, 367, 394, 340, 443, 469; 564/180; 546/166, 123, 268.4; 548/180, 309.4, 268.4; 549/50, 405			
Applicant			
MERCK & CO., INC.			
This international prelimi Examining Authority and	nary examination report has be is transmitted to the applicant fa total of sheets, including	according to 12	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made which have been amended and Section 607 of the Administrative Instructions under the PCT).			
These annexes consist of			
3. This report contains indications relating to the following items:			
I Basis of the report II Priority III Non-establishment of report with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application			
Date of submission of the demand	D	oate of completion	on or this report
27 August 2003 (27.08.2003) 13 September 2004 (13.09.2004)		(13.09.2004)	
Mail Stop PCT, Attn: IPEA/U	Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US Authorized officer		///////////////////////////////////////
Commissioner for Patents	Commissioner for Patents SHAILENDRA - KUMARO		
Alexandria, Virginia 223 13-1450 Telephone No. (571) 272-1600 /			
Facsimile No. (703) 305-3230 Form PCT/IPEA/409 (cover sheet)(Ju	ly 1998)		· ·

INTERNATIONAL	PRELIMINA	EXAMINA	TION REPORT

International app	п No.	
PCT/US03/09800		

1. W		regard to the elements of the international application:* the international application as originally filed. the description: pages 1-160	
	⊴	the description: pages 1-160 as originally filed pages NONE , filed with the demand pages NONE , filed with the letter of the claims: pages 161-188 , as originally filed pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand	
	⊴	pages 1-160 as originally filed pages NONE , filed with the demand pages NONE , filed with the letter of the claims: pages 161-188 , as originally filed pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand	
D	⊴	pages NONE , filed with the demand pages NONE , filed with the letter of the claims: pages 161-188 , as originally filed pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand	
D	₫	pages NONE , filed with the letter of	
D		the claims: pages 161-188 , as originally filed pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand	
>	_	pages 161-188 , as originally filed pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand	
-	_	pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand	
	_	pages NONE , filed with the demand	
	_		
	_	pages NONE, filed with the letter of	
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L_	_	the drawings: pages NONE as originally filed	
		pages NONE , as originally filed pages NONE , filed with the demand	
		pages NONE , filed with the letter of	
	_	the sequence listing part of the description:	
느		pages NONE , as originally filed	
		pages NONE , filed with the demand	
		pages NONE , filed with the letter of	•
2. W	'ith	regard to the language, all the elements marked above were available or furnished to this Au	thority in the
lar	ıgu	age in which the international application was filed, unless otherwise indicated under this item	 l.
Th	ese	e elements were available or furnished to this Authority in the following language which	
L] .	the language of a translation furnished for the purposes of international search (under Rule23.	1(b)).
	_	the language of publication of the international application (under Rule 48.3(b)).	-(-//-
	_	the language of the translation furnished for the purposes of international preliminary examina	
-	י !	55.2 and/or 55.3).	mon(under Rules
3. W	ith	regard to any nucleotide and/or amino acid sequence disclosed in the international application	on the
int	em	national preliminary examination was carried out on the basis of the sequence listing:	011, LLO
	، [contained in the international application in printed form.	
Ļ	<u> </u>	filed together with the international application in computer readable form.	
Ļ	_ 1	furnished subsequently to this Authority in written form.	
<u>_</u>] 1	furnished subsequently to this Authority in computer readable form.	
L]]	The statement that the subsequently furnished written sequence listing does not go beyond the	disclosure in the
	_ i _	international application as filed has been furnished.	
] 7	The statement that the information recorded in computer readable form is identical to the writt	ten sequence listing
	ŀ	has been furnished.	
4. [] 7	The amendments have resulted in the cancellation of:	
	ſ	the description, pages NONE	
	Ì	the claims, Nos. NONE	
	į		
<u>-</u> [1 1 -	the drawings, sheets/fig NONE	
5	ь	This report has been established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in			
** Any	rer.	as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70) Colacement sheet containing such amendments must be referred to under item 1 and annexed to this report	0.16 and 70.17).
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International apple on No. PCT/US03/09800

V. Reasoned statement under Rule 66.2(a)(ii) we citations and explanations supporting such s		rd to novelty, inventive step or industrial applicabi	lity;		
1. STATEMENT					
Novelty (N)	Claims	1-30	_YES		
	Claims	NONE	_NO		
	_	•			
Inventive Step (IS)	Claims		_YES		
	Claims	NONE	_NO		
Industrial Applicability (IA)	Claims	1-30	_YES		
· ·		NONE	_NO		
Claims 1-30 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest instant claimed compounds, composition and method of use. Applicants' arguments were fully considered and were found convincing. The prior arts GB'346 GB' 556, and Lack et al do not anticipate or render instant claims obvious, because the compounds taught by GB'556 and Lack et al have been proviso out in the claims, and in GB'346, there is teaching of dimethyl instead of single methyl in the claims herein. There is no motivation to arrive at the claimed compounds using the prior art, hence instant claims are novel. Claims 1-30 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.					
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International application No.
PCT/US03/09800

	PC17USU3/09800			
VIII. Certain observations on the international application				
The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:				
Claims 1-30 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 1 is indefinite for the following reason(s): This claim does not define R2 to be alkyl but at the same time, suggests that each alkyl can be substituted.				
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